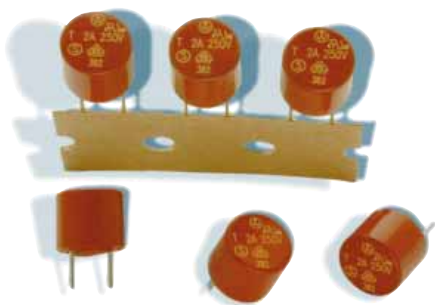
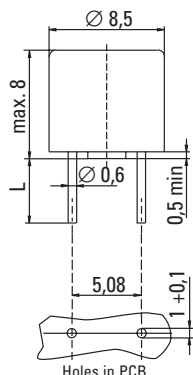




## TR5® / No. 382



## Dimensions (mm)



Long Leads (L=18.8mm)  
Short Leads (L=4.3mm)

## IEC 60127-3/IV, 250V, T

## Time-Current Characteristic

Time Lag (T)

## Standard

IEC 60127-3/IV

## Approvals

VDE: License No. 122750

SEMKO: Certificate No. 9937118

cULus Recognized: File No. E 67006

MITI: File No. 32-1926

## Features

Enhanced breaking capacity  
Reduced PCB space requirements  
Direct solderable or plug-in versions  
Internationally approved  
Low internal resistance  
Shocksafe casing  
Vibration resistant

## WebLinks

## Data Sheet

[www.wickmann.com/products/382.pdf](http://www.wickmann.com/products/382.pdf)

## Approval Certificates

[www.wickmann.com/approvals](http://www.wickmann.com/approvals)

## Time-Current Curve

Page 59

[www.wickmann.com/itcurves](http://www.wickmann.com/itcurves)

## Packaging

Page 118

[www.wickmann.com/pack](http://www.wickmann.com/pack)

## FaxBack Document # 300

## Specifications

## Packaging

000: Tape/Ampopack (1000 pcs.)

041: Short Leads - Bulk (1000 pcs.)

## Materials

Base/Cap: Brown Thermoplastic

Polyamide PA 6.6, UL 94V0

Round Pins: Copper alloy, tin plated

## Operating Temperature

-40°C to +85°C (consider de-rating)

## Climatic Category

-25°C/+70°C/21 days (IEC 60068-2-1..3)

## Stock Conditions

+10°C to +60°C

relative humidity ≤ 75% yearly average,  
without dew, maximum value for 30 days-95%

## Vibration Resistance

24 cycles at 15 min. each (IEC 60068-2-6)

10 - 60Hz at 0.75mm amplitude

60 - 2000Hz at 10g acceleration

## Lead Pull Strength

10N (IEC 60068-2-21)

## Solderability

260°C, ≤ 3 sec. (Wave)

350°C, ≤ 1 sec. (Hand)

## Soldering Heat Resistance

260°C, 10 sec. (IEC 60068-2-20)

## Marking

W, 382, 250V, T, Current Rating, Approvals

## Unit Weight

0.82g (approx.)

## Limits for Pre-arcing Time

| Rated Current   | $1.5 \times I_{\text{Rated}}$ | $2.1 \times I_{\text{Rated}}$ | $2.75 \times I_{\text{Rated}}$ | $4 \times I_{\text{Rated}}$ | $10 \times I_{\text{Rated}}$ |
|-----------------|-------------------------------|-------------------------------|--------------------------------|-----------------------------|------------------------------|
| 1.00A ... 5.00A | > 1h                          | < 2 min                       | 400ms ... 10s                  | 150ms ... 3s                | 20ms ... 150ms               |



## Permissible continuous operating current is ≤ 100% at ambient temperature of 23°C (73.4°F).

| Rated Current | Amp Code | Voltage Rating | Breaking Capacity                                  | Voltage Drop<br>$1.0 \times I_{\text{Rated}}$<br>max. (mV) | Power Dissipation<br>$1.5 \times I_{\text{Rated}}$<br>max. (mW) | Melting Integral<br>$10 \times I_{\text{Rated}}$<br>min. (A²s) | Approvals |       |       |      |
|---------------|----------|----------------|----------------------------------------------------|------------------------------------------------------------|-----------------------------------------------------------------|----------------------------------------------------------------|-----------|-------|-------|------|
|               |          |                |                                                    |                                                            |                                                                 |                                                                | VDE       | SEMKO | cULus | MITI |
| 1.00A         | 1100     | 250V           |                                                    | 100                                                        | 400                                                             | 3.0                                                            | •         | •     | •     | •    |
| 1.25A         | 1125     | 250V           |                                                    | 95                                                         | 465                                                             | 4.5                                                            | •         | •     | •     | •    |
| 1.60A         | 1160     | 250V           |                                                    | 90                                                         | 490                                                             | 9.0                                                            | •         | •     | •     | •    |
| 2.00A         | 1200     | 250V           | 100A/250VAC <sup>1</sup><br>50-60Hz<br>cos φ = 1.0 | 85                                                         | 670                                                             | 12                                                             | •         | •     | •     | •    |
| 2.50A         | 1250     | 250V           |                                                    | 80                                                         | 750                                                             | 22                                                             | •         | •     | •     | •    |
| 3.15A         | 1315     | 250V           |                                                    | 75                                                         | 900                                                             | 32                                                             | •         | •     | •     | •    |
| 4.00A         | 1400     | 250V           |                                                    | 70                                                         | 1200                                                            | 58                                                             | •         | •     | •     | •    |
| 5.00A         | 1500     | 250V           |                                                    | 65                                                         | 1250                                                            | 90                                                             | G         | G     | •     | •    |

<sup>1</sup> Breaking capacity ratings per approval agencies:VDE: 35 A or  $10 \times I_{\text{Rated}}$  at 250V, whichever is greater.

100 A at 250V; Expert Report

SEMKO: 35 A or  $10 \times I_{\text{Rated}}$  at 250V, whichever is greater.

UL: 50 A at 250V

MITI: 100A at 250V

<sup>G</sup> Expert Report

## Order Information

| Qty. | Order-Number | Series | Amp Code | Packaging |
|------|--------------|--------|----------|-----------|
|      |              | 382    |          |           |

WebSite: [www.wickmann.com](http://www.wickmann.com)

000801 FaxBack: +1 (404) 699-6176

• Europe Tel: +49 (2302) 662-107

E-mail: [sales@wickmann.com](mailto:sales@wickmann.com)

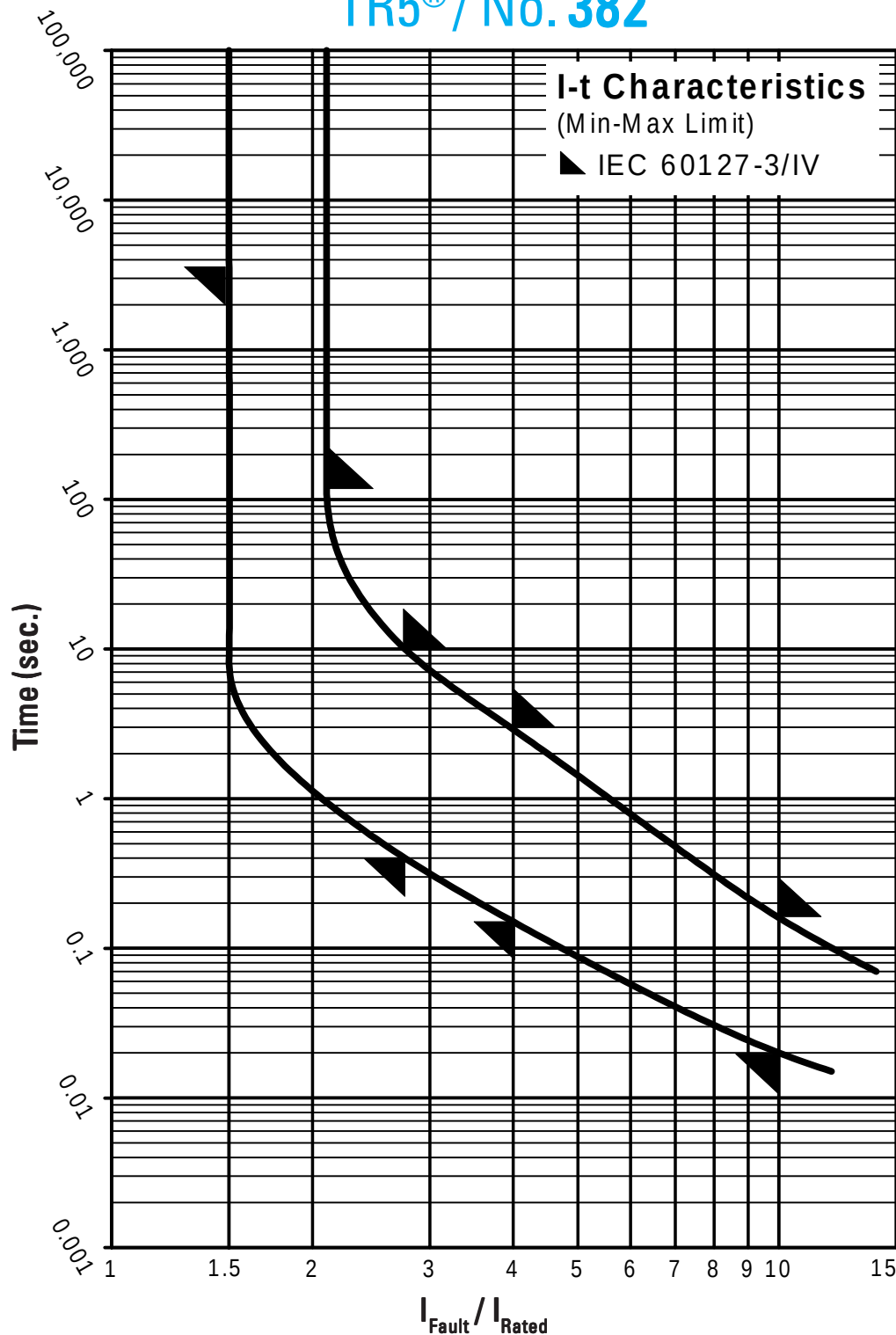
• Americas Tel: +1 (404) 699-7820

E-mail: [service@wickmannusa.com](mailto:service@wickmannusa.com)

• Asia Tel: +852 26 14-1108

E-mail: [sales@wickmann.com.hk](mailto:sales@wickmann.com.hk)

## TR5® / No. 382



Contact WICKMANN for individual I-t curves